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Abstract

The present invention relates to a method for fabricating an emitter array of an electric field emission display device, the emitter being formed by using a carbon nanotube, thereby improving electrical characteristics thereof and facilitating a fabrication thereof. A conventional carbon nanotube has good electrical and mechanical characteristics, but has a problem that it is difficult to form a gate electrode using the nanotube, such that it is also difficult to control an emission of electrons. To overcome the problem, the present invention includes therein a gate electrode structure of triode type. The present invention provides a method for fabricating an emitter array of an electric field emission display device, including the steps of: depositing a catalytic metal on a pixel area; forming thereon a first insulating layer, a patterned gate electrode and a second insulating layer; etching the pixel area to expose the catalytic metal; and growing selectively a carbon nanotube thereon by employing the CVD method.